

WEBINAR

Data spaces: Experiences from strategic data spaces

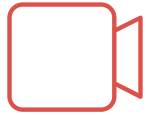
The logo for Data Europa Academy, featuring the text "data.europa academy" in white lowercase letters. The word "data" is on the top line, "europa" is in the middle, and "academy" is on the bottom line. There are small yellow dots above the 'a' in "data" and above the 'o' in "europa".

data.
europa
academy

15 September 2023

10.00 — 11.30 CET

Rules of the game



The webinar will be recorded



For questions, please use the ClickMeeting chat.



Please reserve 3 min after the webinar to help us improve by filling in our feedback form

Introduction



Inmaculada Farfan Velasco
Project Manager,
Data.europa.eu, Publications
Office of the EU



Jerome De Barros
Policy Officer at DG SANTE
Health data space



Katerina Moutogianni
Policy Officer at DG
CNECT
Cultural Heritage data
space

Agenda

10.00 – 10.10 **Opening and introduction of the series**

10.10 – 10.35 Health data space – Jerome de Barros, Directorate-General for Health and Food Safety, European Commission

10.35 – 11.00 Cultural heritage data space – Katerina Moutogianni, Directorate General for Communications Networks, Content and Technology, European Commission

11.00 – 11.25 Questions and answers

11.25 – 11.30 Closing remarks

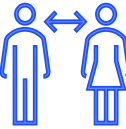
Unveiling the concept of data spaces



Secure and privacy-preserving IT infrastructure



Data governance mechanisms



Data holders in control



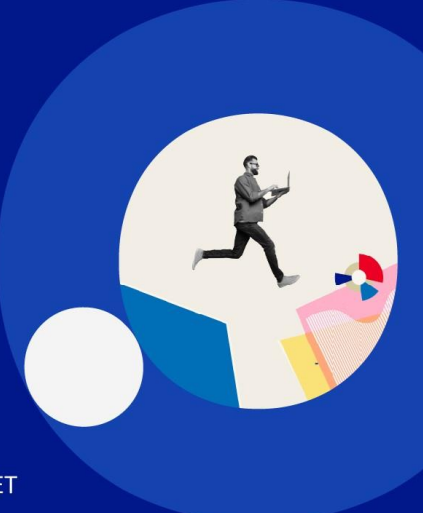
Presence of vast amounts of data



Participation by an open number of organisations and individuals.

WEBINAR

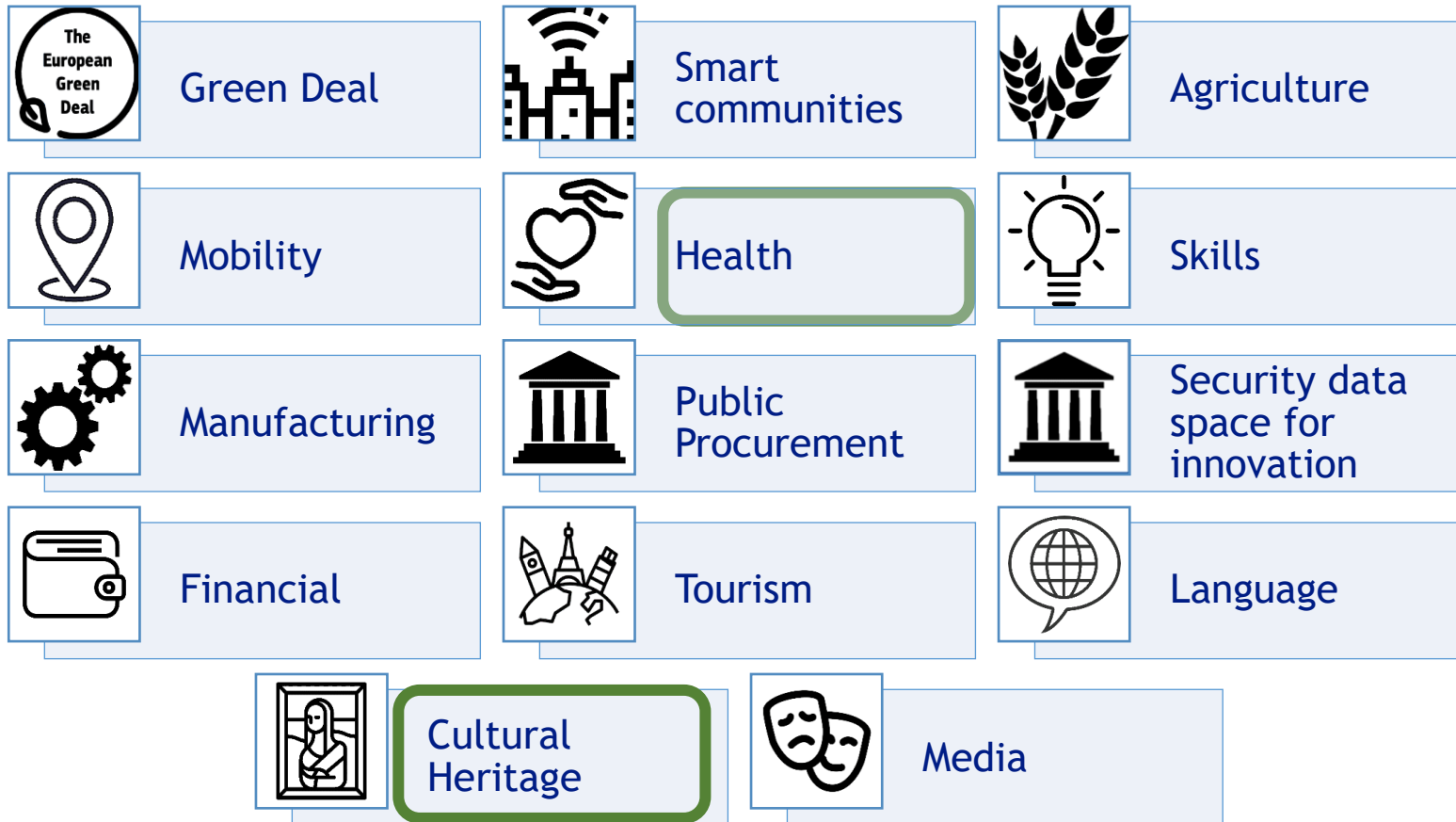
Data spaces:
Introducing the
concept and
relevance in today's
world



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12 May 2023
10.00 — 11.00 CET

Common European data spaces





Health data space

Jerome de Barros,

*Directorate-General for Health and
Food Safety, European Commission*



European Health Data Space

15-09-2023



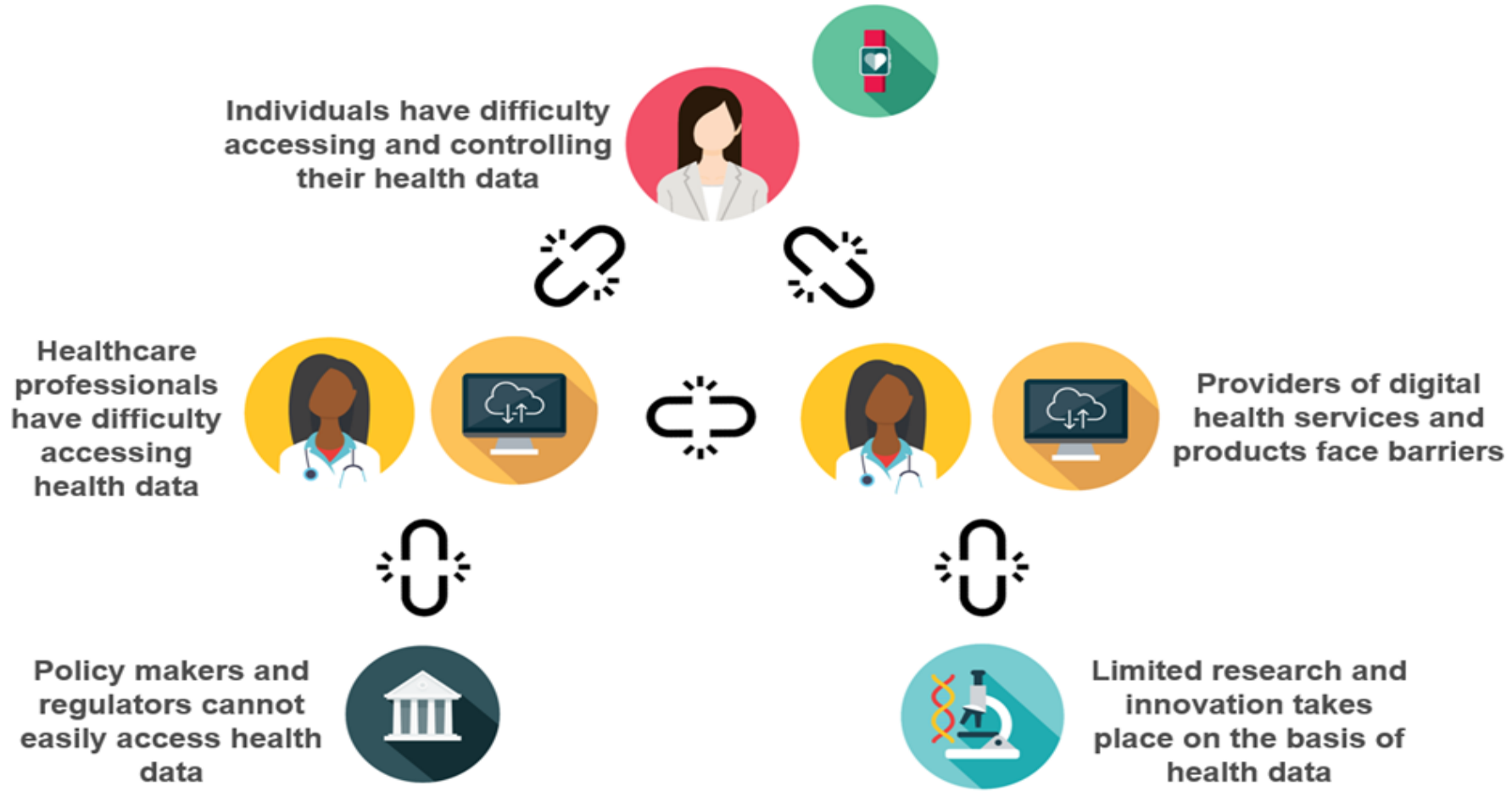
European Commission
SANTE C1 – Digital health
sante-consult-c1@ec.europa.eu

General overview

Why act now?

- **The 2020 European Strategy for Data** announced the Commission's plans for European data spaces, including EHDS
- The COVID-19 pandemic has clearly demonstrated **the importance** of digital services in the health domain, and has triggered **an important acceleration in the uptake** of digital tools. The European Digital Covid Certificate – positioned the EU as a **global leader and standard setter in digital health**
- The challenge now is **to maintain this momentum** on the importance of health data

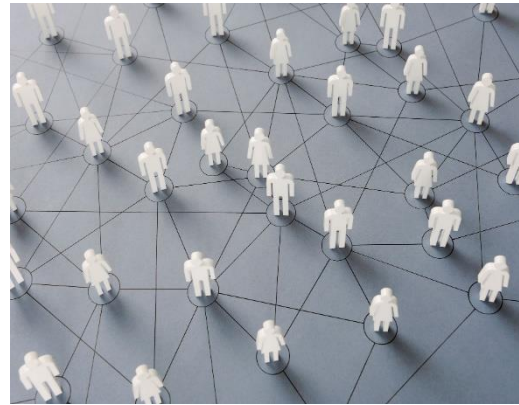
Main challenges in harnessing the power of health data



Proposal for a Regulation on the European Health Data Space

It sets out rules, common standards, infrastructures and a governance framework for the use of electronic health data for healthcare, research, innovation and policy making

Empower individuals to access and control their personal health data

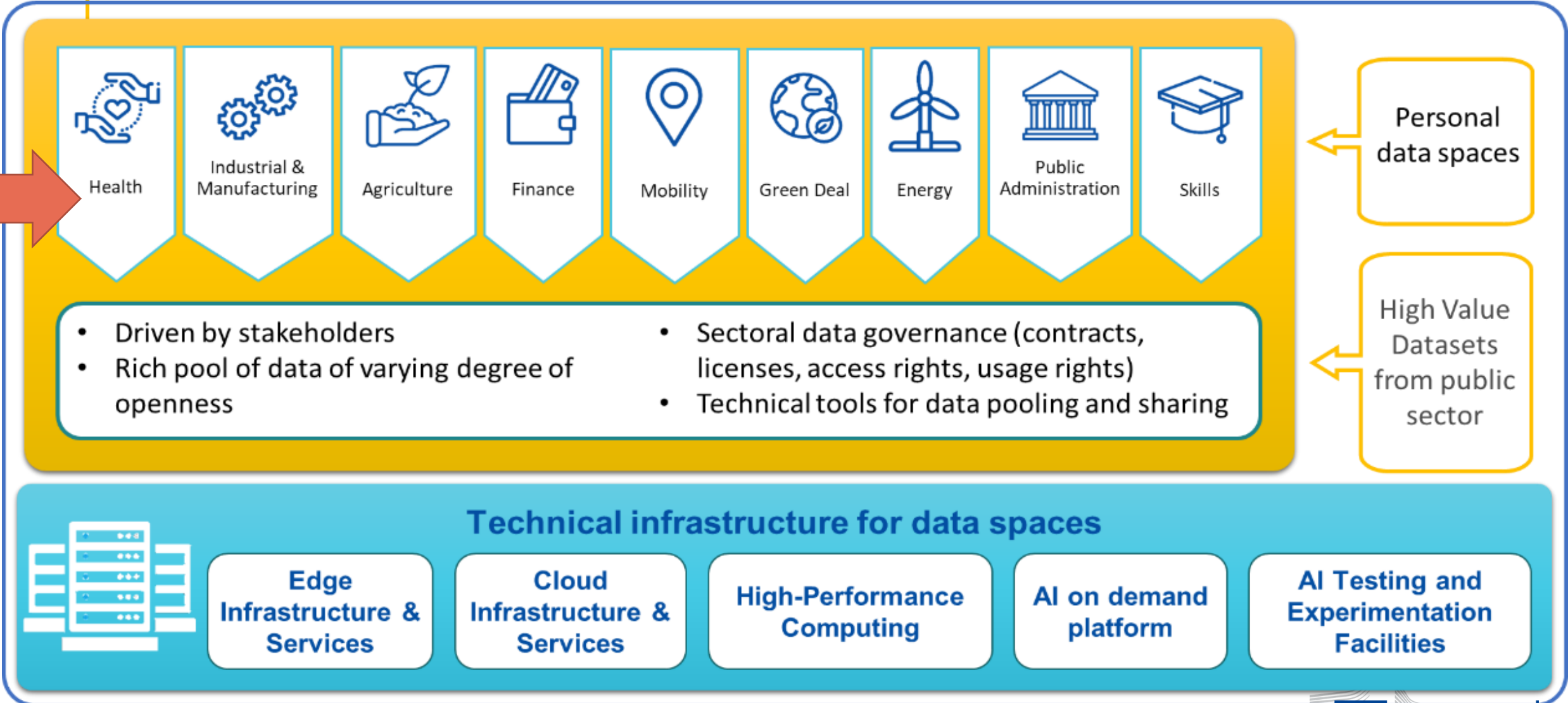


Ensure a consistent framework for the use of individuals' health data for research, innovation, policy-making and regulatory activities

Unleash the data economy by fostering a genuine single market for digital health services and products (EHR systems)



EHDS – the first sector specific European Data Space



EHDS – links with other legal proposals and initiatives

GDPR

EHDS builds upon GDPR rights and further develops some of them

European Health Union

EHDS will boost the work of EU Cancer plan, HERA, Pharmaceutical Strategy for Europe

Data Governance Act, Data act

EHDS complements and provides more tailor-made rules for the health sector

EU cybersecurity framework (NIS directive)

EHDS complements and provides more tailor-made rules for the health sector

Artificial Intelligence Act

EHDS supports and complements training of AI, interoperability of AI and EHR systems and data quality

Medical Device Regulations

If manufacturers claim interoperability of devices with EHR systems –EHDS requirements apply

Legal basis and scope of health data

- **Legal basis - Article 16 TFEU and Article 114 TFEU**
- **Article 16-** EHDS is building upon GDPR, strengthening the rights to the protection of personal health data and building on possibilities of EU law for processive sensitive health and genetic data
- **Article 114** - EHDS aims to improve the functioning of the internal market and the free movement of goods and services to avoid legislative fragmentation in the internal market and different rules and practices across the EU
- **Full respect of Article 168 TFEU** – EHDS does not intervene in organisation and delivery of health services and medical care of Member States
- **Non-personal and personal health data** in scope

European Health Data Space (EHDS)

OBJECTIVES

Effective use of health data

SCOPE & EXPECTED IMPACT

Use of health data
(primary,
MyHealth@EU)

- Empower individuals to control their data
- Standardization and mandatory certification of EHR systems
- Voluntary labelling of wellness apps
- European Electronic Health Record Exchange Format (EEHRxF)

Single market for health data, data protection, free movement of people, digital goods and services

Re-use of health data
(secondary,
HealthData@EU)

- Health data access bodies
- Purposes for use and forbidden use
- Data permits, secure environments, no identification

Facilitated Research & Innovation

Better Policy Making

MEANS

Legal / Governance

Quality of data

Infrastructure

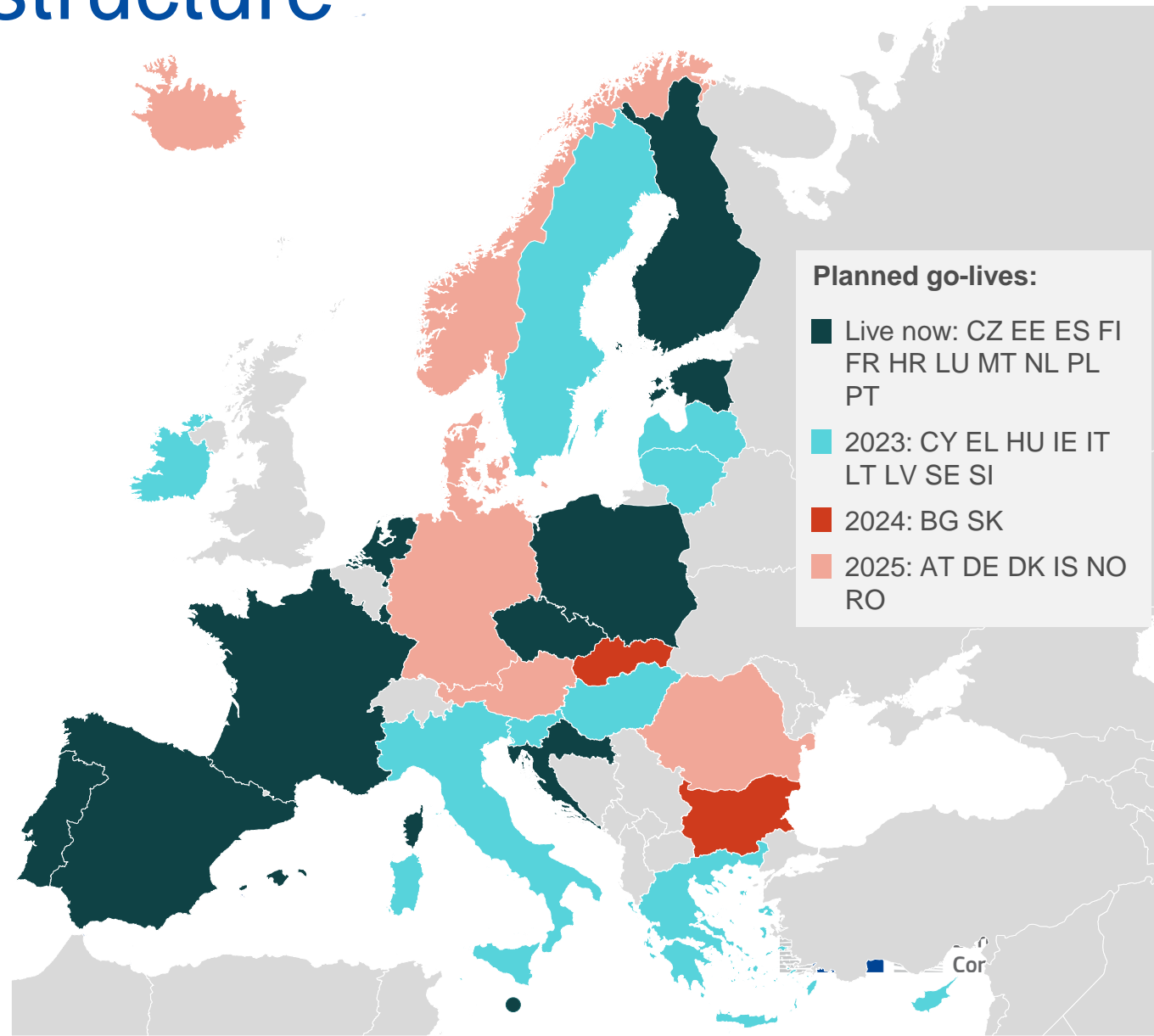
Capacity building/digitalisation

MyHealth@EU

Primary use of health data (for provision of health services)

MyHealth@EU infrastructure

MyHealth@EU is the existing infrastructure that connects healthcare providers in 11 Member States. It allows them to exchange health data such as Patient Summaries and ePrescriptions. These services will be expanded to include lab results and other types of health data.



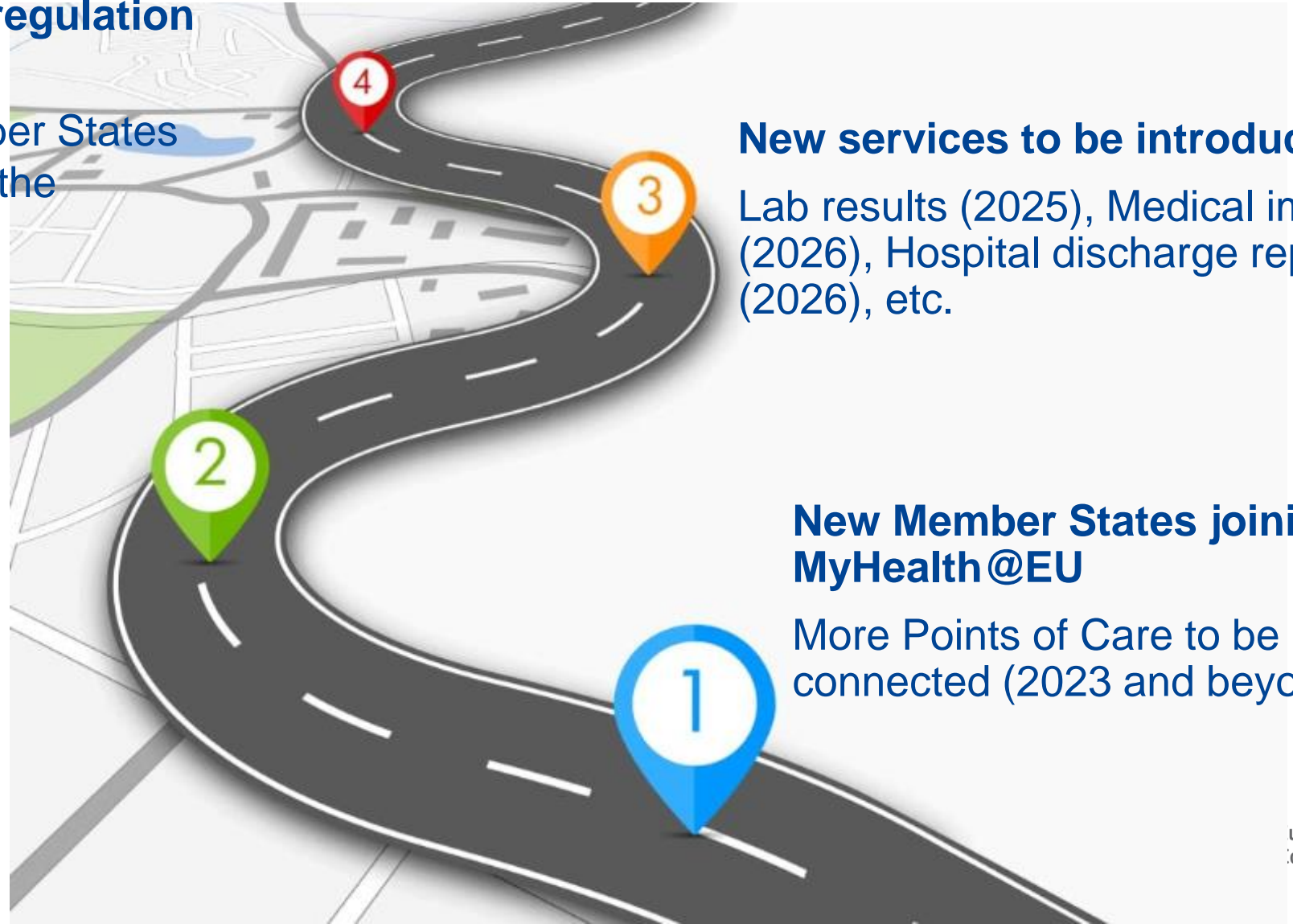
MyHealth@EU roadmap

Entry into force of EHDS regulation

Mandatory participation in MyHealth@EU for all Member States with transitional periods for the different services

Pilot on Patient Access

to enable citizens to access health data in MyHealth@EU (kick-off in January 2023).



New services to be introduced

Lab results (2025), Medical images (2026), Hospital discharge reports (2026), etc.

New Member States joining MyHealth@EU

More Points of Care to be connected (2023 and beyond)

HealthData@EU

Secondary use of health data

Chapter IV Secondary use of health data

Defines a **set of minimum categories** of electronic data for **secondary use** that can be used for defined **purposes** (supporting policy making, regulatory activities, research, innovation and development of health products, training of AI algorithms eg for medical devices).

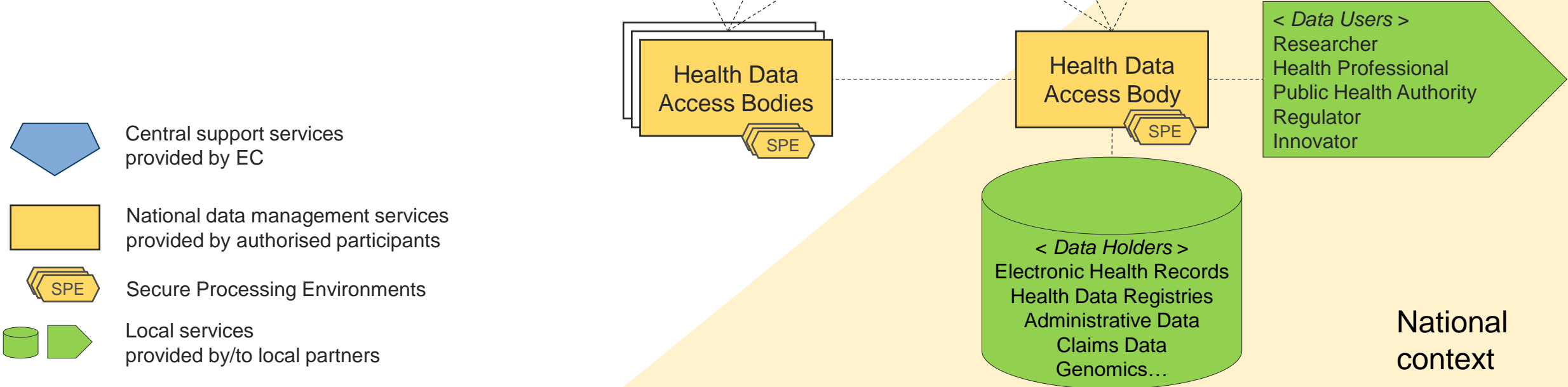
Defines **prohibited purposes** (eg use of data against persons, commercial advertising, increasing insurance, develop dangerous products) (Art. 33, 34, 35)

Set up a **health data access body/bodies** for secondary use of electronic health data (Art. 36) – *building upon the Data Governance Act*

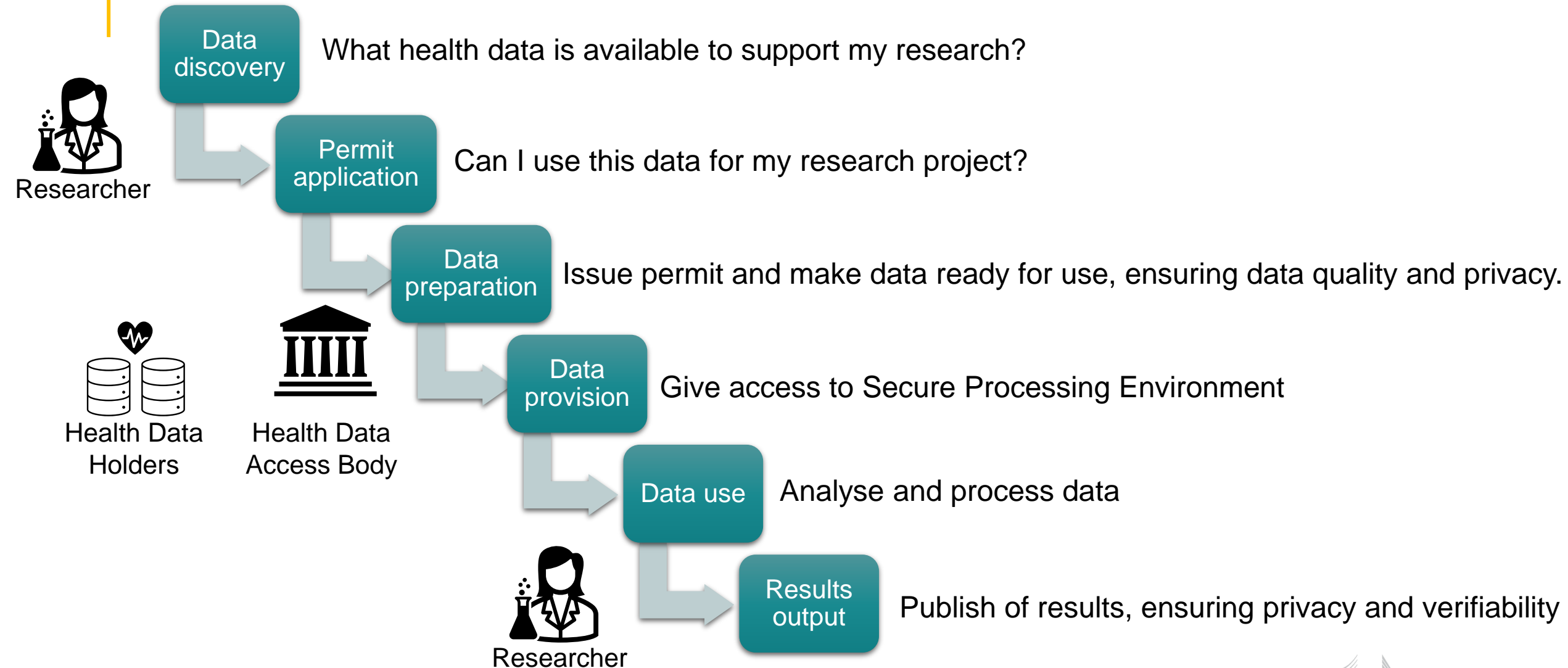
The tasks and obligations of the health data access body, the data holders and the data users (Art. 37, 38, 39)

Sets the duties for data holders (Art. 41)

HealthData@EU reference architecture



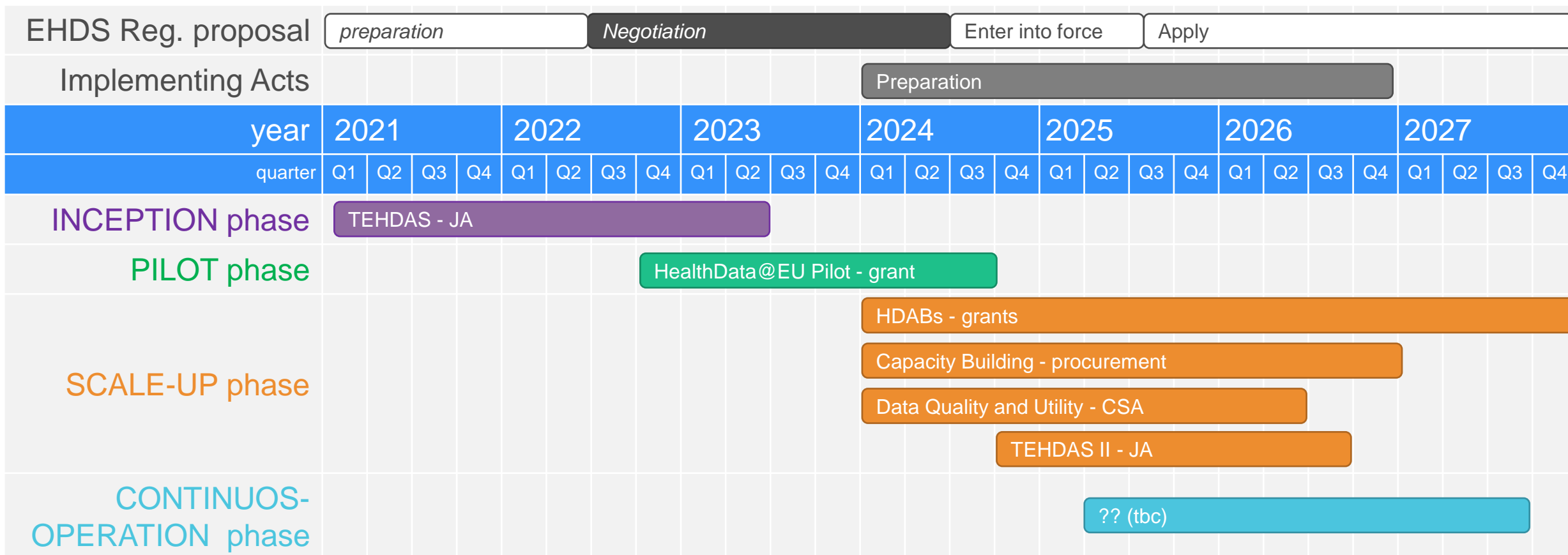
Overview of a generic data access approval process



Implementation

Regulation, infrastructure and skills

Draft timeline for some actions on secondary use





Cultural heritage data space

Katerina Moutogianni

*Directorate General for
Communications Networks,
Content and Technology, European
Commission*



The common European data space for cultural heritage

Webinar: Experiences from Strategic Data Spaces

15 September 2023

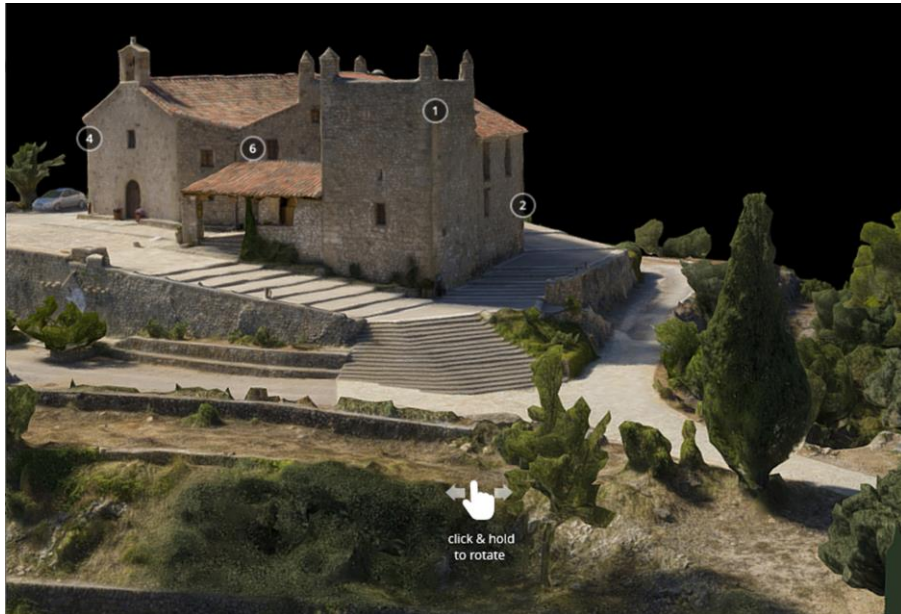
Katerina Moutogianni

*DG CNECT, Unit 'Interactive Technologies,
Digital for Culture and Education'*

Policy framework



Commission Recommendation of 10 November 2021 on a common European data space for cultural heritage (2021/7953/EU)



Castell de Atzeneta, Castellón, España by ADD4D.org, Europe - CC BY-NC
https://www.europeana.eu/en/item/181/share3d_831

Objectives:

- pave the way for a common European data space for cultural heritage
- help Member States accelerate digitisation and preservation efforts
- seize the opportunities of digital transformation for cultural heritage institutions

<https://digital-strategy.ec.europa.eu/en/news/commission-proposes-common-european-data-space-cultural-heritage>



3D model of Etruscan Oinochoe with small wheel-shaped handle, Source: [Europeana](#)

Main elements

- Scope: tangible, intangible, natural, born digital
- Setting up comprehensive digital strategies for digitisation and preservation
- Taking up advanced technologies – 3D, XR, AI, data
- Data space for cultural heritage and Europeana: more high quality data available for reuse, including 3D content, focus on interoperability, uptake of standards and frameworks
- Assessing the digital skills gap - upskilling and reskilling professionals
- Promoting cross-sector & cross-border collaboration
- Involving more SMEs
- Use of funding possibilities at EU and national level

Deployment of the data space (service contract)

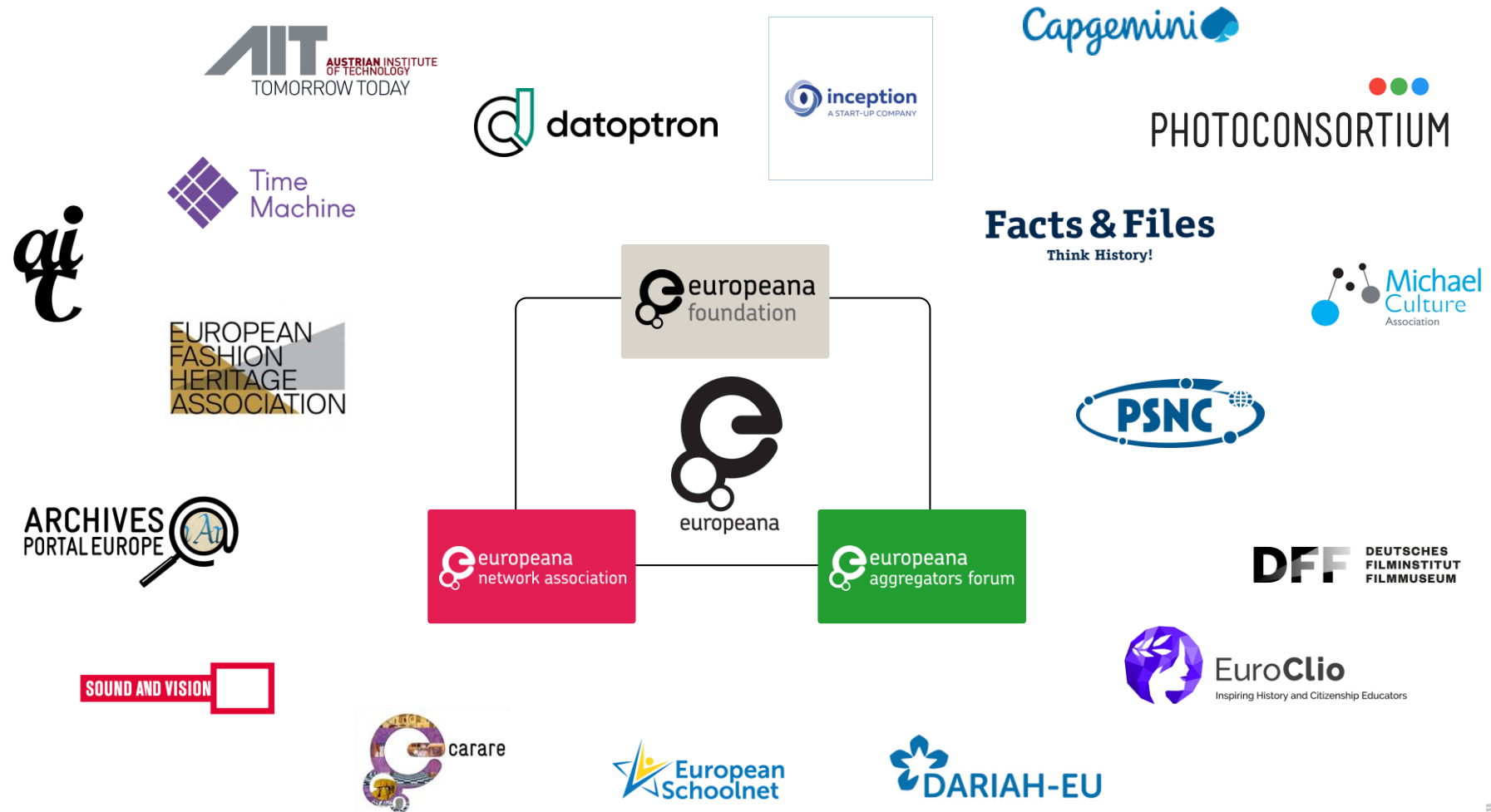


Builds on 15 years of work

- The common European data space for cultural heritage is funded under the Digital Europe Programme of the European Union.
- It builds on the work and experience of the Europeana Digital Service Infrastructure and the investment for the development of the Europeana digital platform since 2008.
- The common European data space for cultural heritage is one of the most advanced data spaces, starting from a solid base.
- The service contract to deploy the common European data space for cultural heritage started in Sep.2022 to Aug.2024, with a budget of €15M. Work led by the Europeana Foundation.

<https://pro.europeana.eu/page/common-european-data-space-for-cultural-heritage>

Consortium partners



Work areas

1

Data space infrastructure

2

High-quality data

3

Building capacity and fostering reuse

4

Digital services for the public

Data Space Infrastructure

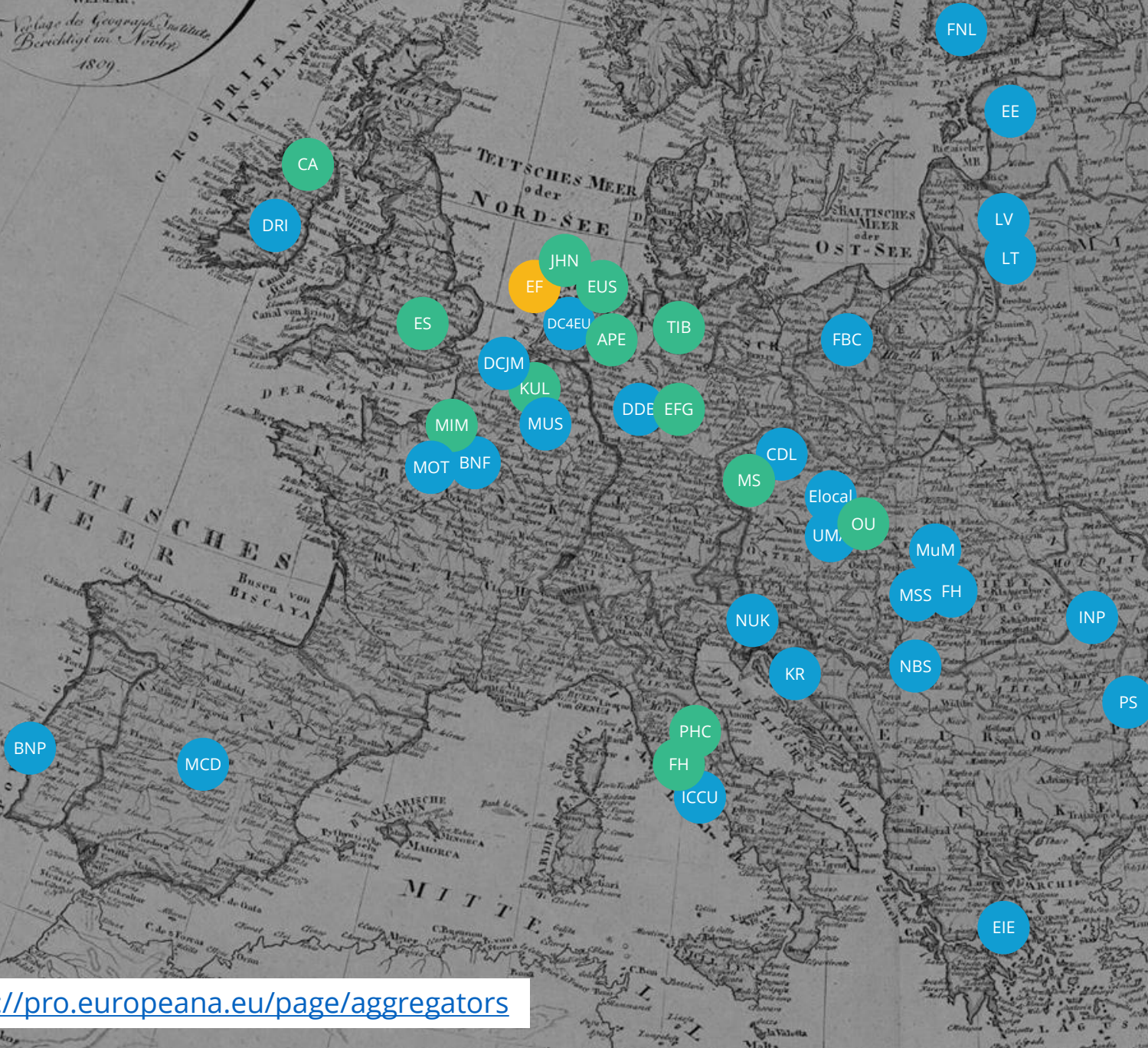
- Evolving the aggregation infrastructure and services to support the growth of the underlying data repository
 - Metis Suite, for processing submitted datasets
 - [Metis Sandbox](#), enabling aggregators to test datasets
 - Persistent identifiers, exploring possibilities for decentralised and linked data based approaches
- Collaboration with the Data Spaces Support Centre, to ensure interoperability and common approaches
- Expanding the Application Programming Interfaces (APIs), allowing internal and external services to search and access the data [APIs | Europeana PRO](#)

40

Accredited partners

= National Aggregator

= Domain Aggregator



<https://pro.europeana.eu/page/aggregators>

Data Governance & high quality data

- Developing a Data Governance Strategy, together with the stakeholder community
- Review and evolution of frameworks and standards ([Europeana Data Model](#), [Publishing Framework](#), and [Europeana Licencing Framework](#))
 - Support for 3D content and metadata enrichments
- Raising data quality, resolving issues
- [Data Statistics Dashboard](#) - feedback to data providers and stakeholders

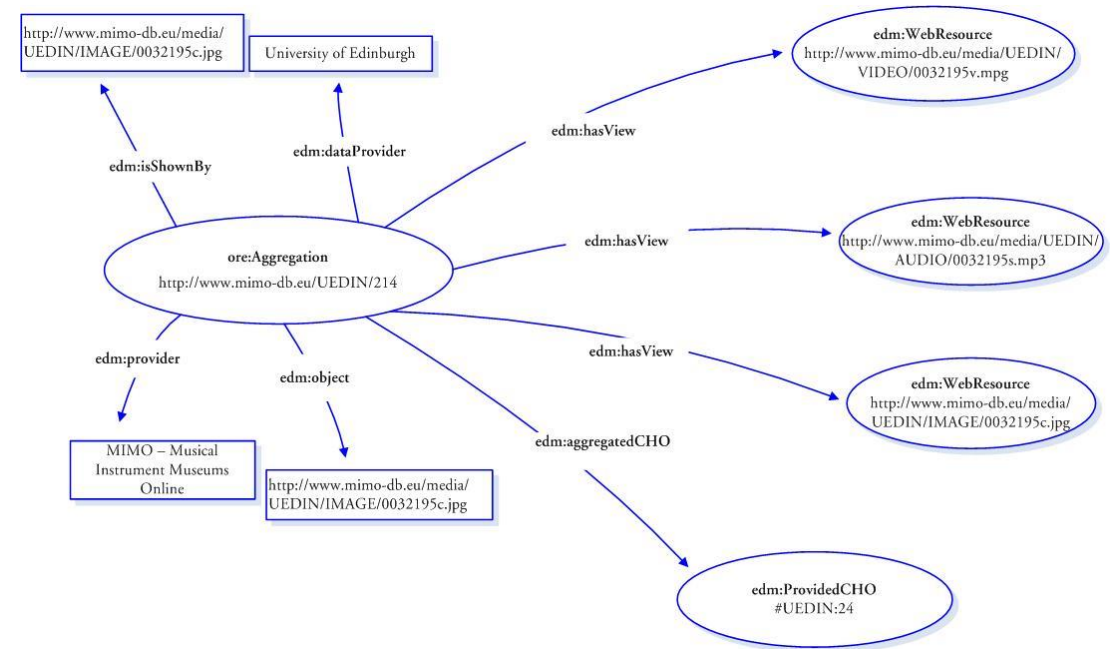
Metadata

Metadata is created by cultural heritage institutions in a range of formats:

- Dublin Core
- Marc21
- LIDO
- EAD
- EFG data model
- ABCDE
- Darwin Core



For inclusion in Europeana, it is migrated to the **Europeana Data Model (EDM)**



Europeana Licensing Framework

- All digital objects have a rights statement, that indicates the extent to which they can be used
 - 14 standardised rights statements (<https://pro.europeana.eu/page/available-rights-statements>)
- All metadata is reusable, with no copyright limitations

Europeana Publishing Framework – data quality

2015 : Content Tiers

Europeana Publishing Framework: Content

Here you see how the different content tiers of the Publishing Framework work. In this example, we use images. For video, audio, text and 3D, please see the Europeana Publishing Guide.

| TIER | DIRECT LINK TO OBJECT PROVIDED | RIGHTS STATEMENTS | EUROPEANA API DISPLAYS | BENEFITS (CUMULATIVE) |
|---|--|---|---|--|
| 1 Europeana as a search engine. <i>'I want to search and browse collections online.'</i> | Yes. Minimum of 0.1 megapixel in size | Any from the Europeana licensing Framework | Metadata plus direct link to object | Findability - indexed by search engines, linked data technology Web traffic - click-throughs to your site |
| 2 Europeana as a showcase. <i>'I want to be guided through collections online.'</i> | Yes. Minimum of 0.42 megapixel in size | Any from the Europeana licensing Framework | Metadata plus direct link to object | Use in thematic collections - providing context and relation to other collections on Europeana More marketing through Europeana |
| 3 Europeana as a distribution platform for non-commercial reuse. <i>'I want to find, view and use collections in my own non-commercial projects.'</i> | Yes. Minimum of 0.95 megapixel in size | Any from the Europeana licensing framework that allow for some re-use | Metadata plus direct link to object and can filter to show only re-usable objects | Impressions - collections viewed on platforms outside of Europeana Use in Europeana's existing partnerships and projects in e.g. education and research Use in apps and services by third parties |
| 4 Europeana as a free reuse platform. <i>'I want to find, view and use collections in whatever way I choose.'</i> | Yes. Minimum of 0.95 megapixel in size | Any from the Europeana licensing framework that allow free re-use | Metadata plus direct link to object and can filter to show only re-usable objects | Use on open platforms like Wikimedia Use by creative industry Use in commercial apps and services |



EUROPEANA PUBLISHING FRAMEWORK: CONTENT
Quick Summary

2019 : Metadata Tiers

Europeana Publishing Framework: Metadata

Here you see how the different metadata tiers of the Publishing Framework work.

| TIER | LANGUAGE | ENABLING ELEMENTS* | CONTEXTUAL CLASSES** | BENEFITS (CUMULATIVE) |
|---|--|--|---|---|
| A Europeana as a basic search platform. <i>'I want to find a specific item that I'm looking for.'</i> | At least 25% of the provided EDM metadata fields that are relevant have at least 1 language qualified value | At least one enabling element taken from one of the 'Discovery scenario' groups | None | Findability - material is available on Europeana Collections, indexed by search engines, and linked data technology Web traffic - click-throughs to your site |
| B Europeana as an exploration platform. <i>'I want to browse and explore Europeana even if I'm not sure what I'm looking for.'</i> | At least 50% of the provided EDM metadata fields that are relevant have at least 1 language qualified value | At least three distinct elements taken from two of the 'Discovery scenario' groups | At least one contextual class with all minimum required elements, OR link to LOD vocabulary | Greater potential for: Use in thematic collections - providing context and relation to other collections More marketing through Europeana |
| C Europeana as a knowledge platform. <i>'I want to search and browse in a more precise way, by named authors, specific subjects or topics.'</i> | At least 75% of the provided EDM metadata fields that are relevant have at least 1 language qualified value | At least four distinct elements taken from two of the 'Discovery scenario' groups | At least two distinct contextual classes with all minimum required elements, OR links to LOD vocabularies | Greater potential for: Use in Europeana's existing partnerships and projects , in e.g. education and research Use in apps and services Use by creative industry |
| *Discovery scenario Browse by date or time-span Browse by subjects and types Browse by agents Browse by places | | Enabling elements dcterms:created, dcterms:issued, dcterms:temporal, edm:hasMet (with a time-span - edm:TimeSpan class) dc:subject (with a concept - skos:Concept class), dc:format, dc:type, dcterms:medium dc:creator, dc:contributor, dc:publisher, dc:subject (with an agent - edm:Agent class), edm:hasMet (with an agent - edm:Agent class) dc:subject (with a place - edm:Place class), dcterms:spatial, edm:currentLocation | | |
| **Contextual class edm:TimeSpan skos:Concept edm:Agent edm:Place | | Minimum required metadata elements edm:begin, edm:end skos:prefLabel and skos:note (or skos:broadener, skos:narrower, skos:exactMatch, skos:closeMatch, skos:related) skos:prefLabel and rdaGr2:professionOrOccupation (or edm:begin, rdaGr2:dateOfBirth, edm:end, rdaGr2:dateOfDeath, rdaGr2:placeOfDeath, rdaGr2:placeOfBirth) skos:prefLabel, wgs84_pos:lat, wgs84_pos:long | | |
| Notes on contextual classes The contextual classes (listed above) can be included in the metadata at source, but the use of Linked Open Data vocabularies is preferred. References to contextual classes created as a result of Europeana's own Semantic Enrichment do not count for the tier classification. | | | | |



EUROPEANA PUBLISHING FRAMEWORK: METADATA v0.8
Quick Summary

HOW MUCH DATA IS CURRENTLY IN HIGH QUALITY TIERS?

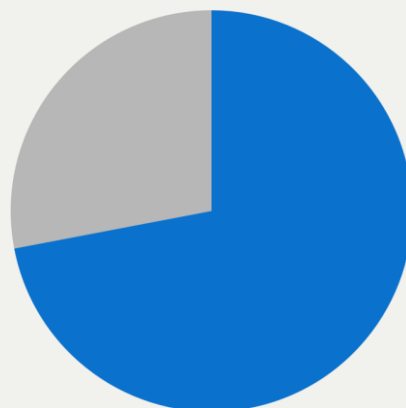
55%



HIGH QUALITY AND
REUSABLE CONTENT

Tier 3+ content

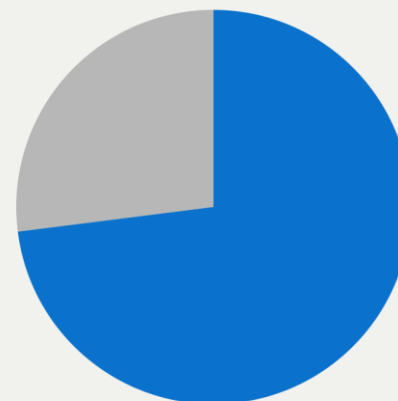
73%



HIGH QUALITY
CONTENT

Tier 2+ content

74%



HIGH QUALITY
METADATA

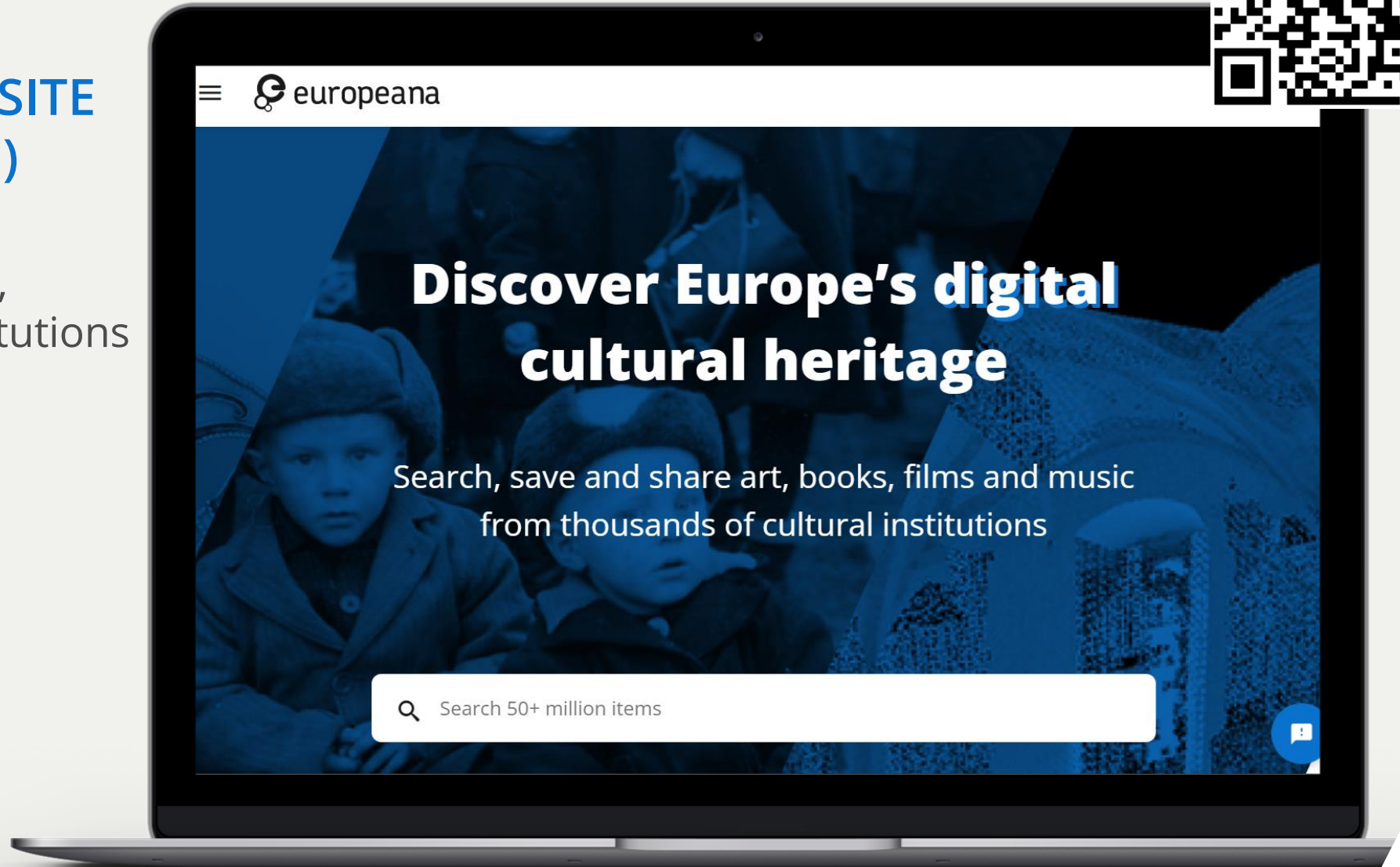
Tier A+ metadata

Digital services for the public

- [Europeana.eu](https://europeana.eu) website
 - Multilingual data and editorial content, in all EU official languages
 - Advanced search and filtering functionality
 - Theme pages
 - User galleries
- User engagement via **multiple channels**
- GIF IT UP competition, Digital Storytelling Festival

EUROPEANA WEBSITE (europeana.eu)

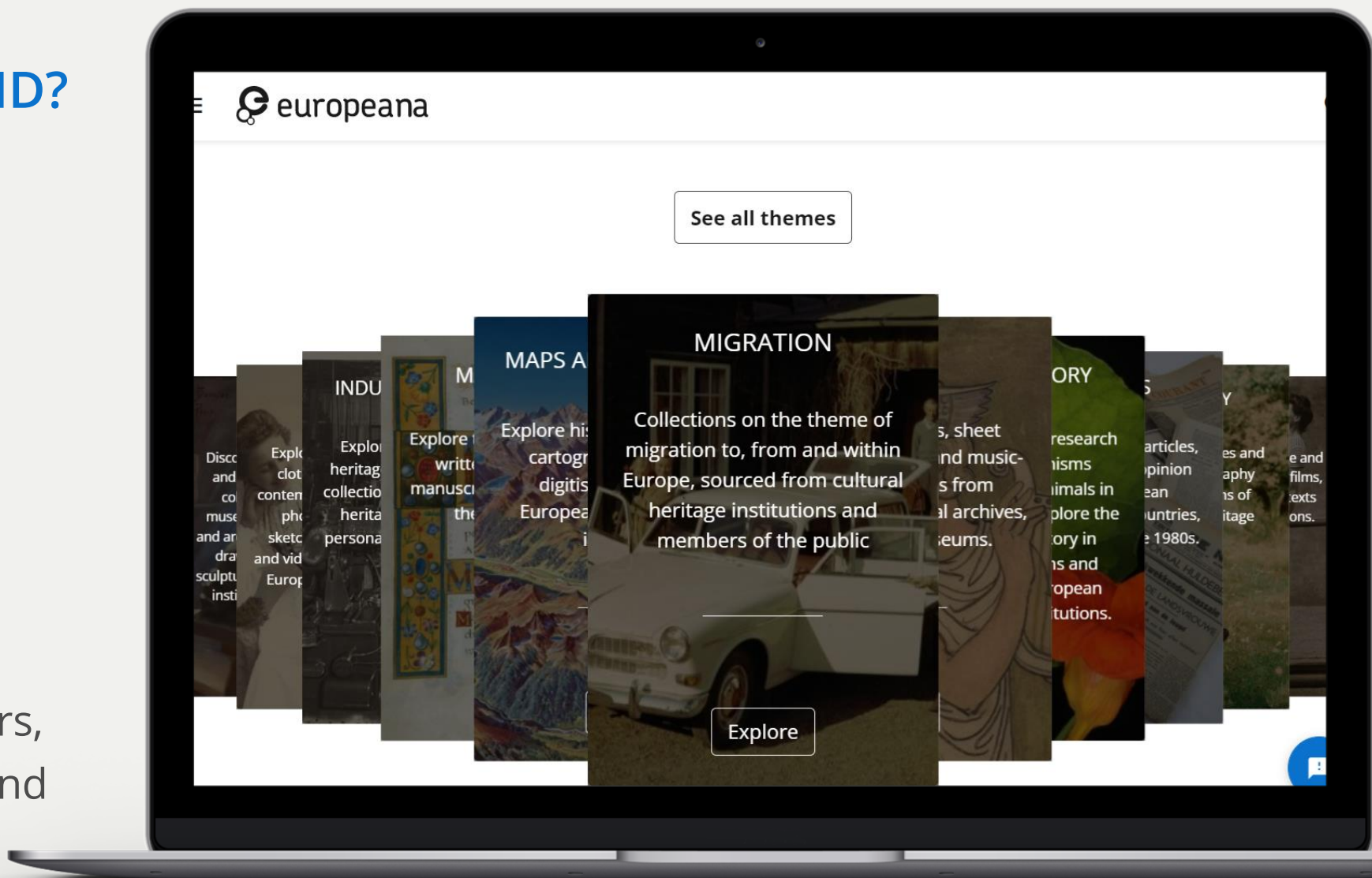
- 50+ million records, 3600+ cultural institutions
- 50% of items can be freely reused, 72% allow some reuse
- 7200 user created galleries
- 6m visits per year



WHAT CAN YOU FIND?

30+ million images,
20+ million texts,
500,000 sound files,
300,000 videos
~5,000 3D objects.

Variety of themes:
artworks, books, maps,
manuscripts, newspapers,
nature, sport, science and
everything in between.



Capacity building & fostering reuse

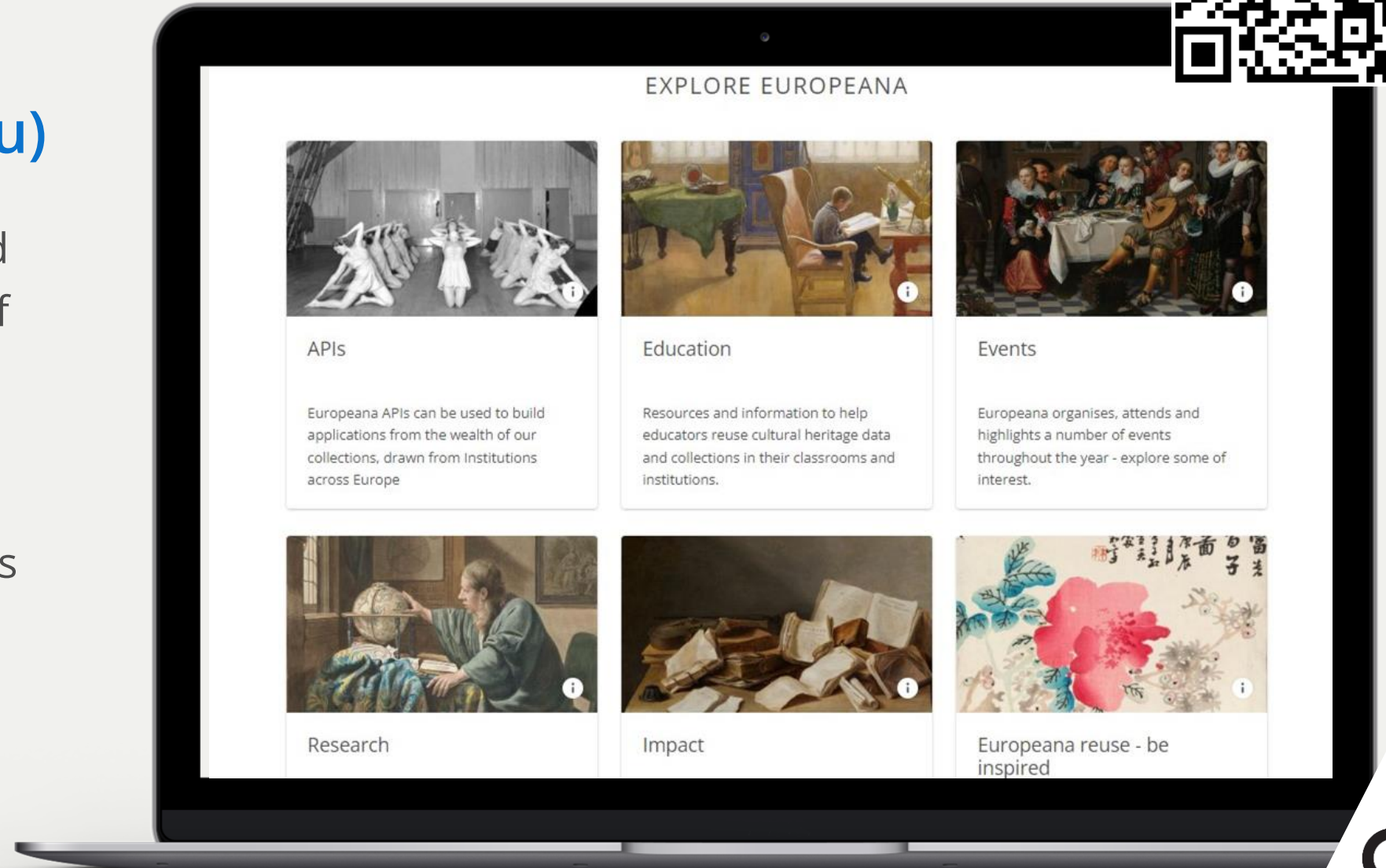
- 4000+ network members
- **Cultural heritage professionals**: Program of training and events, Knowledge Base, peer to peer knowledge exchanges
- **Education communities**: Training and co-creating events for teachers, online course on creating e-Learning activities, [MOOC](#) on digital education with cultural heritage, Teaching with Europeana blog
- **Research community**: Research grants around reuse in academia and research, crowdsourcing projects
- **Developers/API users**: API documentation and training, hackathons, Low-Code Fest



EUROPEANA PRO (pro.europeana.eu)

Information, support and guidance for members of the community:

- Network and community activities
- Services and tools
- Projects and partnerships
- News and events



Supporting projects (grants)

Exerciții de gimnastică în sală, sportul pentru studenți în perioada comunistă, anii 1950-1960 -
Europeana Foundation, Europe - CC BY-SA.



5D Culture

Aims to enrich the offer of 3D digital cultural heritage assets in the data space and foster their reuse in domains such as education, tourism and the wider cultural and creative sector

The project will start on 1 January 2023 and will run for 24 months.

Participant countries: Netherlands, Italy, Austria, Ireland, Italy and Spain



De-Bias

Aims to promote a more inclusive and up-to-date approach to describing cultural collections. DE-BIAS will create a tool that automatically detects offensive terms and provides information on their problematic background.

The project will start on 1 January 2023 and will run for 24 months.

Participant countries: Germany, Netherlands, Greece, Italy, Cyprus, Belgium and France



EUreka3D

Aims to build the capacity of small CHIs in digital transformation, particularly on issues related to 3D digitisation by offering knowledge, services and resources.

The project will start on 1 January 2023 and will run for 24 months.

Participant countries: Italy, Netherlands, Spain, Cyprus, France



AI4Europeana

Aims to development the ' AI4Culture platform' - an online capacity building hub for the application of Artificial intelligence technologies in the cultural heritage sector.

The project will start on 1 April 2023 and will run for 27 months.

Participant countries: Greece, Netherlands, Italy, Cyprus, Spain, Belgium.



Thank you!



<https://digital-strategy.ec.europa.eu/en/policies/cultural-heritage>



[@digicultEU](https://twitter.com/digicultEU) (Digital for Cultural Heritage)



CNECT-G2@ec.europa.eu

Questions & Answers



Please provide
your feedback!



Stay up-to-date on our
2023 activities!

The logo for Data Europa Academy is located in the bottom left corner. It consists of the words "data.", "europa", and "academy" stacked vertically in a white, lowercase, sans-serif font. The word "data." has a small yellow dot above the 'a'. The word "europa" has a small yellow dot above the 'o'. The word "academy" has a small yellow dot above the 'a'. The logo is set against a dark blue circular background that is part of a larger graphic design of overlapping circles in various shades of blue.

data.
europa
academy

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WEBINAR

Open Data Maturity 2022: Diving deeper into the policy dimension



data.europa academy

29 September 2023
10.00 — 11.30 CET

WEBINAR

Data spaces: Discovering the building blocks



data.europa academy

6 October 2023
10.00 — 11.30 CET

WEBINAR

Open Data Maturity 2022: Diving deeper into the impact dimension



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27 October 2023
10.00 — 11.30 CET



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Thank you

